

Supplemental Figure 4. Effect of combined biotin deficiency and carnitine deficiency on extracellular acylcarnitine concentrations and acylcarnitine ratios at the point of greatest depletion of biotin, carnitine, or both in HepG2 cells. A. Acylcarnitines Ac, Pc, and 3HIAc that arise from the acyl-CoAs that are substrates of the biotin-dependent carboxylases. B. Acylcarnitines Mc, MMc, and MGc that arise from the acyl-CoAs that are products of the biotin-dependent carboxylases. C. Substrate:product ratios of the acylcarnitines. Values are mean \pm SD, n=4. Student's t test: * P < 0.05, *** P < 0.001. BD CD, biotin deficient carnitine deficient; BD CS, biotin deficient carnitine sufficient; BS CD, biotin sufficient carnitine sufficient; Ac, acetylcarnitne; 3HIAc, 3-hydroxyisovalerylcarnitine; Mc, malonylcarnitine; MGc, 3-methylglutarylcarnitine; MMc, methylmalonylcarnitine; Pc, propionylcarnitine.